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CLAIMS

What is claimed is:

- 1. A flexible tip for a hearing aid comprising: a mushroom shaped tip;
- an inner portion defining a bore having a proximal end and a distal end, the proximal end of the bore adapted to be disposed adjacent an eardrum; and a receiver mounted within the bore.
- The flexible tip of claim 1 further comprising a sealing layer formed between the receiver and the inner portion, the sealing layer minimizing the presence of an acoustical feedback path within the flexible tip.
 - 3. The flexible tip of claim 1 further comprising a receiver housing integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.
- The flexible tip of claim 3 further comprising a sealing layer between the
 receiver and the receiver housing, the sealing layer minimizing the presence of an acoustical feedback path within the flexible tip.
 - 5. The flexible tip of claim 1 further comprising a receiver housing and spring assembly integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.
- 20 6. The flexible tip of claim 5 wherein the spring is compliant along a transverse axis and a longitudinal axis to provide flexibility in the tip.

- 7. The flexible tip of claim 5 wherein the spring comprises a radial stiffness to provide support from radial loads placed on the flexible tip.
- 8. The flexible tip of claim 5 wherein the spring comprises a hearing aid securing portion for securing the flexible tip to a hearing aid.
- 5 9. The flexible tip of claim 5 further comprising a sealing layer between the receiver and the receiver housing, the sealing layer minimizing the presence of an acoustical feedback path.
 - 10. The flexible tip of claim 5 wherein the inner portion and the mushroom shaped tip are formed of a compliant material.
- 10 11. The flexible tip of claim 1 wherein the inner portion is formed of a first material and the mushroom shaped tip is formed of a second material, the second material having a greater compliance than the first material.
 - 12. A hearing aid comprising:
 - a hearing aid base unit having a housing, a microphone, a battery and electronics; and
 - a flexible tip connected to the base unit, the flexible tip having a mushroom shaped tip, an inner portion defining a bore having a proximal end and a distal end, the proximal end adapted to be disposed adjacent an eardrum, and a receiver mounted within the bore.
- 20 13. The hearing aid of claim 12 further comprising a sealing layer formed between the receiver and the inner portion, the sealing layer minimizing the presence of an acoustical feedback path within the flexible tip.

- 14. The hearing aid of claim 12 further comprising a receiver housing integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.
- The hearing aid of claim 14 further comprising a sealing layer between the
 receiver and the receiver housing, the sealing layer minimizing the presence of an acoustical feedback path within the flexible tip.
 - 16. The hearing aid of claim 12 further comprising a receiver housing and spring assembly integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.
- 10 17. The hearing aid of claim 16 wherein the spring is compliant along a transverse axis and a longitudinal axis to provide flexibility in the tip.
 - 18. The hearing aid of claim 16 wherein the spring comprises a radial stiffness to provide support from radial loads placed on the flexible tip.
- The hearing aid of claim 16 wherein the spring comprises a hearing aid securingportion for securing the flexible tip to a hearing aid body.
 - 20. The hearing aid of claim 16 further comprising a sealing layer between the receiver and the receiver housing, the sealing layer minimizing the presence of an acoustical feedback path.
- The hearing aid of claim 16 wherein the inner portion and the mushroom shaped tip is formed of a compliant material.

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- 22. The hearing aid of claim 12 wherein the inner portion is formed of a first material and the mushroom shaped tip is formed of a second material, the second material having a greater compliance than the first material.
- 5 23. A method for placing a receiver adjacent to an eardrum comprising:

providing a hearing aid having a flexible tip formed of a mushroom shaped tip and an inner portion defining a bore, the flexible tip having a receiver mounted within the bore;

placing the hearing aid within an ear of a user; and placing the flexible tip adjacent to the eardrum within the ear of the user.

- 24. The method of claim 23 comprising decreasing the amount of power required by the receiver.
- 25. A flexible tip for a hearing aid comprising:

a tip portion for sealing an ear canal;

an inner portion defining a bore having a proximal end and a distal end, the inner portion formed of a flexible material adapted to conform to the geometry of an ear canal and the proximal end of the bore adapted to be disposed adjacent an eardrum; and

a receiver mounted within the bore.

- 26. The flexible tip of claim 25 further comprising a sealing layer formed between the receiver and the inner portion, the sealing layer minimizing the presence of an acoustical feedback path within the flexible tip.
 - 27. The flexible tip of claim 25 further comprising a receiver housing integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.

- 28. The flexible tip of claim 27 further comprising a sealing layer between the receiver and the receiver housing, the sealing layer minimizing the presence of an acoustical feedback path within the flexible tip.
- 29. The flexible tip of claim 25 further comprising a receiver housing and spring 5 assembly integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.
 - 30. The flexible tip of claim 29 wherein the spring is compliant along a transverse axis and a longitudinal axis to provide flexibility in the tip.
- The flexible tip of claim 29 wherein the spring comprises a radial stiffness to 31. 10 provide support from radial loads placed on the flexible tip.
 - 32. The flexible tip of claim 29 wherein the spring comprises a hearing aid securing portion for securing the flexible tip to a hearing aid.
- 33. The flexible tip of claim 29 further comprising a sealing layer between the receiver and the receiver housing, the sealing layer minimizing the presence of 15 an acoustical feedback path.
 - 34. The flexible tip of claim 25 wherein the inner portion is formed of a first material and the tip portion is formed of a second material, the second material having a greater compliance than the first material.
 - 35. A hearing aid comprising:
- 20 a hearing aid base unit having a housing, a microphone, a battery and electronics; and

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a flexible tip connected to the base unit, the flexible tip having a tip portion for sealing an ear canal, an inner portion defining a bore having a proximal end and a distal end, the inner portion formed of a flexible material adapted to conform to the geometry of an ear canal and the proximal end of the bore adapted to be disposed adjacent an eardrum, and a receiver mounted within the bore.

- 36. The hearing aid of claim 35 further comprising a sealing layer formed between the receiver and the inner portion, the sealing layer minimizing the presence of an acoustical feedback path within the flexible tip.
- 10 37. The hearing aid of claim 35 further comprising a receiver housing integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.
- The hearing aid of claim 37 further comprising a sealing layer between the receiver and the receiver housing, the sealing layer minimizing the presence of
 an acoustical feedback path within the flexible tip.
 - 39. The hearing aid of claim 35 further comprising a receiver housing and spring assembly integrally formed with the bore of the flexible tip, the receiver mounted within the receiver housing.
- 40. The hearing aid of claim 39 wherein the spring is compliant along a transverse axis and a longitudinal axis to provide flexibility in the tip.
 - 41. The hearing aid of claim 39 wherein the spring comprises a radial stiffness to provide support from radial loads placed on the flexible tip.

- 42. The hearing aid of claim 39 wherein the spring comprises a hearing aid securing portion for securing the flexible tip to a hearing aid body.
- 43. The hearing aid of claim 39 further comprising a sealing layer between the receiver and the receiver housing, the sealing layer minimizing the presence of an acoustical feedback path.
- 44. The hearing aid of claim 35 wherein the inner portion is formed of a first material and the tip portion is formed of a second material, the second material having a greater compliance than the first material.